

APPROVED	BY	DATE
APPROVED	BY	DATE
APPROVED	BY	DATE

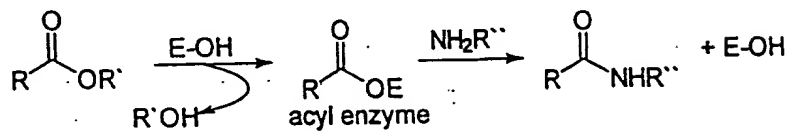
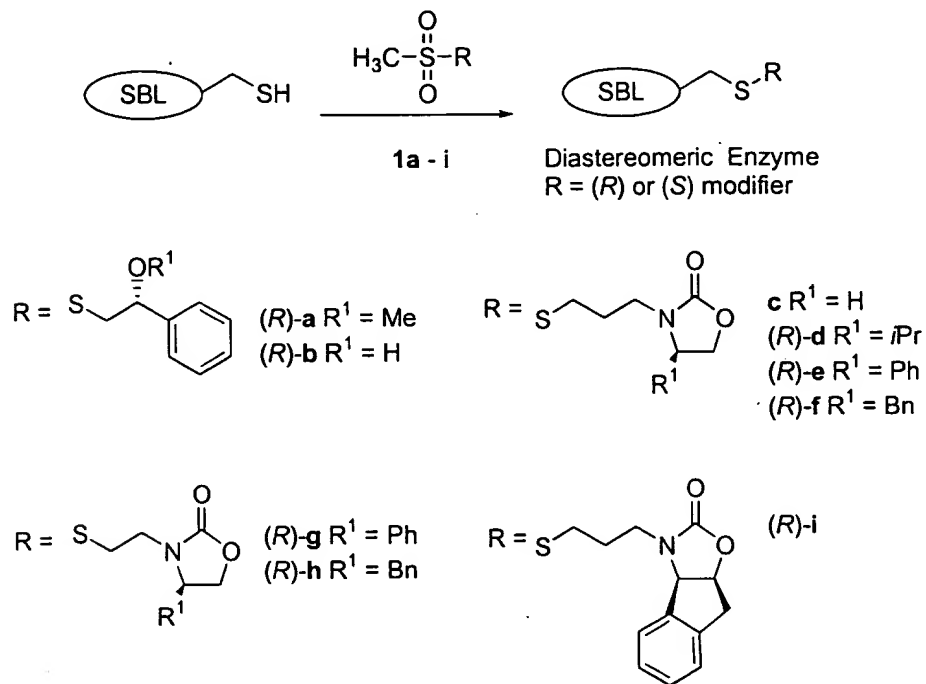


Fig. 1

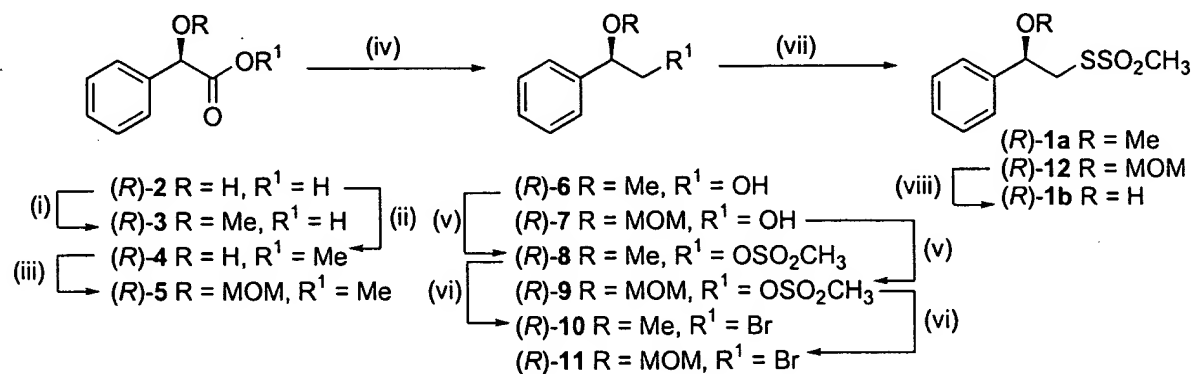
Scheme 1. Modification of SBL mutants with Chiral Auxiliaries.



The corresponding (S) MTS ligands follow the same code scheme (i.e. (S)-a, (S)-b, (S)-d, (S)-e, (S)-f, (S)-g, (S)-h, (S)-i).

Fig. 2

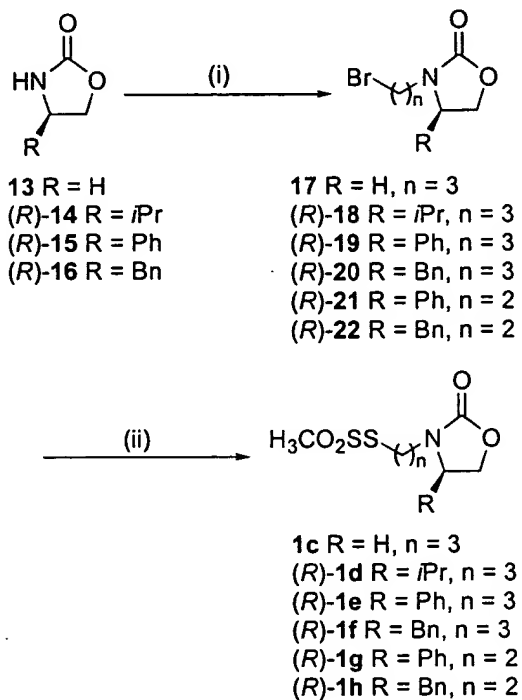
Scheme 2. Synthesis of Mandelate-based Ligands



Reagents: (i) Me_2SO_4 , NaOH, H_2O , 37%; (ii) MeOH, H^+ ; (iii) MOM-Cl, CH_2Cl_2 , Et_3N (90% 2 steps);
 (iv) For (R)-3: BH_3 , THF, 82%; For (R)-5: LiBH_4 , THF, 97%; (v) MeSO_2Cl , CH_2Cl_2 , Et_3N ;
 For (R)-8: 100%; (vi) LiBr, acetone; For (R)-10: 84%; For (R)-11: 78% 2 steps; (vii) $\text{NaSSO}_2\text{CH}_3$, DMF;
 For (R)-12: 61%; (viii) TFA, H_2O , 82%.

Fig. 3

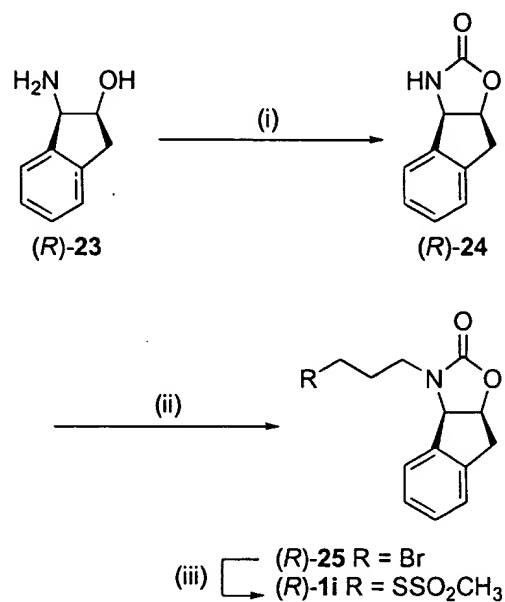
Scheme 3. Synthesis of Oxazolidinone-based Ligands



Reagents: (i) KOH, DMSO, Br (CH₂)_nBr;
 (ii) NaSSO₂CH₃, DMF.

Fig. 4

Scheme 4. Synthesis of Indanol-based Ligands



Reagents: (i) triphosgene, CH_2Cl_2 , Et_3N , 100%;
(ii) KOH , DMSO , $\text{Br}(\text{CH}_2)_3\text{Br}$; (iii) $\text{NaSSO}_2\text{CH}_3$,
 DMF .

Fig. 5

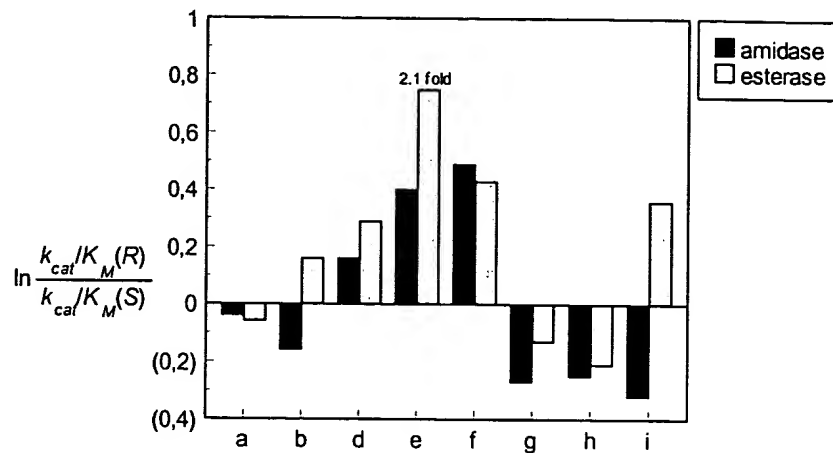


Fig. 6A

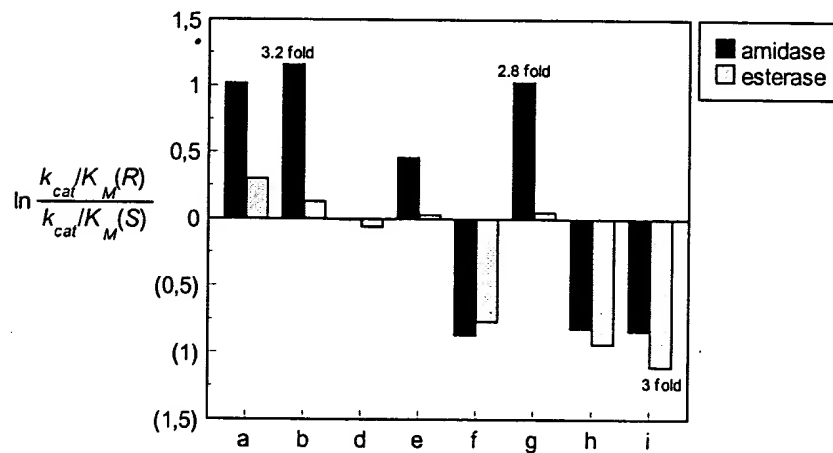


Fig. 6B

APPROVED	O.G. F. 3.
EX	CLASS
	SUBCLASS

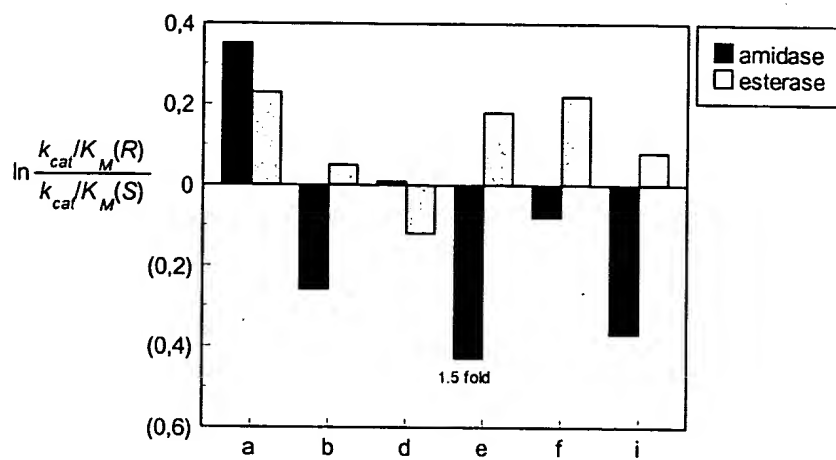


Fig. 6C